What is claimed is: 1

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- An apparatus for collecting samples for mass spectrometric 3 analysis, said apparatus comprising: 4
- a tray for holding said sample material; 5
- a robotic interface; and 6
- a capillary having an inlet end and an outlet end; 7
- wherein said outlet end of said capillary is positioned such 8
- that ions produced from said samples are introduced into a mass 9
- analyzer, and wherein said inlet end of said capillary is 10
- positioned by said robotic interface for accepting ions of said 11
- 12 samples.

13 14 An apparatus according to claim 1, wherein said capillary comprises a channel having a helical structure.

15 16 17 An apparatus according to claim 1, wherein said inlet ends 18 and said outlet ends comprise conductive end caps.

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An apparatus according to claim 1, wherein said ions are 20 4. transported from an ionization source into a first vacuum region 21 of a mass spectrometer. 22

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An apparatus according to claim 4, wherein said ionization 24 25 source is an API source.

- An apparatus according to claim 4, wherein said ionization 1
- source is an ESI device. 2

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- An apparatus according to claim 4, wherein said ionization 4
- source is a pneumatic assisted electrospray source. 5

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- An apparatus according to claim 4, wherein said ionization 7
- source is an electron impact source. 8

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- An apparatus according to claim 4, wherein said ionization 10 11 12 13 14
 - source is a chemical ionization source.

- 10. An apparatus according to claim 4, wherein said ionization
- source is a matrix assisted laser desorption ionization source.

- 151 164 11. An apparatus according to claim 4, wherein said ionization
- 1**7** source is a plasma desorption source.

- An apparatus according to claim 4, wherein said ionization 19
- source uses liquid chromatography. 20

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- An apparatus according to claim 1, wherein said apparatus is 22
- used to multiplex sample materials. 23

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An apparatus for collecting samples for analysis in a mass 25

1	spectrometer, said apparatus comprising:
2	a tray for holding said sample material;
3	a robotic interface;
4	first and second capillary sections each having an
5	inlet end and an outlet end; and
6	a union having first and second openings;
7	wherein said outlet end of said first capillary section is
8	removably positioned within said first opening of said union, and
9	wherein said inlet of said second capillary section is removably
LO	positioned within said second opening of said union.
11 <u>—</u> 12 <u>—</u> 13 <u>—</u> 14 <u>—</u>	15. An apparatus according to claim 14, wherein said first section comprises a channel having a helical structure.
15	16. An apparatus according to claim 14, wherein said union
16.	comprises means for removably securing said ends of said first
1 7 18	and second sections.
19	17. An apparatus according to claim 14, wherein said union
20	comprises means for providing an airtight seal between said ends
21	of said first and second sections within said union.
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18. An apparatus according to claim 14, wherein said inlet ends

and said outlet ends comprise conductive end caps.

- An apparatus according to claim 1, wherein said ions are 1
- transported from an ionization source into a first vacuum region 2
- of a mass spectrometer. 3

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- An apparatus according to claim 19, wherein said ionization 5
- source is an API source. 6

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- 21. An apparatus according to claim 19, wherein said ionization 8
- source is an ESI device. 9

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- An apparatus according to claim 19, wherein said ionization 11
- source is a pneumatic assisted electrospray source.

- An apparatus according to claim 19, wherein said ionization
- source is an electron impact source.

15 16 17 18 24. An apparatus according to claim 19, wherein said ionization source is a chemical ionization source.

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- An apparatus according to claim 19, wherein said ionization 20
- source is a matrix assisted laser desorption ionization source. 21

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- An apparatus according to claim 19, wherein said ionization 23
- source is a plasma desorption source. 24

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27. An apparatus according to claim 19, wherein said ionization source uses liquid chromatography.

An apparatus according to claim 14, wherein said apparatus is used to multiplex sample materials.